

Title (en)

HIGHLY PURE PYRROLOQUINOLINYL-PYRROLE-2,5-DIONE AND PYRROLOQUINOLINYL-PYRROLIDINE-2,5-DIONE AND METHODS OF PREPARING SAME

Title (de)

HOCHREINES PYRROLOCHINOLINYL-PYRROL-2,5-DION UND PYRROLOCHINOLINYL-PYRROLIDIN-2,5-DION UND VERFAHREN ZUR HERSTELLUNG DAVON

Title (fr)

PYRROLOQUINOLINYL-PYRROLE-2,5-DIONE ET PYRROLOQUINOLINYL-PYRROLIDINE-2,5-DION DE PURETÉ ÉLEVÉE ET LEURS PROCÉDÉS DE PRÉPARATION

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Application

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Abstract (en)

[origin: US2013281699A1] The present invention relates to highly-pure pyrroloquinolinyl-pyrrole-2,5-dione and pyrroloquinolinyl-pyrrolidine-2,5-dione, for example, 3-(5,6-dihydro-4H-pyrrolo[3,2,1-ij]quinolin-1-yl)-4-(1H-indol-3-yl)-1H-pyrrole-2,5-dione, 3-(5,6-dihydro-4H-pyrrolo[3,2,1-ij]quinolin-1-yl)-4-(1H-indol-3-yl)pyrrolidine-2,5-dione, and pharmaceutically acceptable salts, solvates, and diastereomers thereof. The present invention also relates to methods for preparing highly-pure pyrroloquinolinyl-pyrrole-2,5-dione and pyrroloquinolinyl-pyrrolidine-2,5-dione, for example, 3-(5,6-dihydro-4H-pyrrolo[3,2,1-ij]quinolin-1-yl)-4-(1H-indol-3-yl)-1H-pyrrole-2,5-dione, 3-(5,6-dihydro-4H-pyrrolo[3,2,1-ij]quinolin-1-yl)-4-(1H-indol-3-yl)pyrrolidine-2,5-dione, and pharmaceutically acceptable salts, solvates, and diastereomers thereof.

IPC 8 full level

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Citation (search report)

- [XY] WO 2006086484 A1 20060817 - ARQULE INC [US], et al
- [X] AL-AWAR R S ET AL: "1,7-Annulated indolocarbazoles as cyclin-dependent kinase inhibitors", BIOORGANIC & MEDICINAL CHEMISTRY LETTERS, PERGAMON, AMSTERDAM, NL, vol. 14, no. 12, 21 June 2004 (2004-06-21), pages 3217 - 3220, XP004841377, ISSN: 0960-894X, DOI: 10.1016/J.BMCL.2004.03.105
- [Y] FAUL ET AL: "A New, Efficient Method for the Synthesis of Bisindolylmaleimides", THE JOURNAL OF ORGANIC CHEMISTRY, AMERICAN CHEMICAL SOCIETY, US, vol. 63, no. 17, 1 January 1998 (1998-01-01), pages 6053 - 6058, XP002193283, ISSN: 0022-3263, DOI: 10.1021/JO980513C
- See references of WO 2013162714A1

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